

## Wilson County

### Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors

6/28/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 19 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Wilson County economy.<sup>1</sup>

These 19 sectors have a total direct output of approximately **\$88.3 million** and support **516 jobs** in Wilson County. Running the model for all 19 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Wilson County Economy					
Contribution Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>
<b>Direct Effect</b>	516.0	9.73%	\$29,676,899	8.71%	\$88,261,403
<b>Indirect Effect</b>	67.6	1.27%	\$4,912,042	1.44%	\$9,866,738
<b>Induced Effect</b>	46.7	0.88%	\$2,714,606	0.80%	\$5,333,111
<b>Total Effect</b>	630.3	11.89%	\$37,303,547	10.95%	\$103,461,253

As shown in the above table, agriculture, food, and food processing sectors support **630 jobs**, or **11.89%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 19 agriculture, food, and food processing sectors is approximately **\$37.3 million**, or **10.95% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

<sup>1</sup> Article on building a contribution analysis in IMPLAN that avoids double counting:

[http://www.implan.com/index.php?option=com\\_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70](http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70)

<sup>2</sup> Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

<sup>3</sup> Value added = labor income + indirect business taxes + other property type income.

<sup>4</sup> GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

<sup>5</sup> Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **273 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Wilson County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	273.2	\$27,306,145
Grain farming	75.0	\$23,623,873
Support activities for agriculture and forestry	72.0	\$4,568,020
All other crop farming	35.1	\$2,372,368
Oilseed farming	24.7	\$22,281,485
Landscape and horticultural services	16.9	\$602,657
Truck transportation	10.3	\$1,476,286
Monetary authorities and depository credit intermediation	8.5	\$1,588,467
Animal, except poultry, slaughtering	7.8	\$5,280,474
Wholesale trade	7.6	\$1,446,739

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$27.3 million** to the Wilson County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	273.2	\$27,306,145
Grain farming	75.0	\$23,623,873
Oilseed farming	24.7	\$22,281,485
Animal, except poultry, slaughtering	7.8	\$5,280,474
Support activities for agriculture and forestry	72.0	\$4,568,020
All other crop farming	35.1	\$2,372,368
Monetary authorities and depository credit intermediation	8.5	\$1,588,467
Truck transportation	10.3	\$1,476,286
Wholesale trade	7.6	\$1,446,739
Owner-occupied dwellings	0.0	\$1,289,463

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Wilson County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	24.7	\$22,281,484.60
Grain farming	75.0	\$23,623,872.76
Vegetable and melon farming	0.1	\$28,560.12
Fruit farming	1.3	\$108,760.66
Tree nut farming	0.3	\$42,929.70
All other crop farming	24.1	\$1,618,343.47
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	273.2	\$27,306,144.71
Poultry and egg production	0.3	\$206,883.77
Animal production, except cattle and poultry and eggs	2.4	\$248,604.18
Commercial logging	1.4	\$36,131.30
Commercial hunting and trapping	1.3	\$25,904.21
Support activities for agriculture and forestry	72.0	\$4,568,020.34
Animal, except poultry, slaughtering	7.8	\$5,280,474.19
Bread and bakery product, except frozen, manufacturing	3.8	\$448,314.93
Frozen cakes and other pastries manufacturing	0.2	\$33,419.97
Other leather and allied product manufacturing	2.5	\$221,049.52
Farm machinery and equipment manufacturing	1.4	\$715,799.75
Veterinary services	7.4	\$864,047.47
Landscape and horticultural services	16.9	\$602,657.44

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Wilson County, the retail sector was omitted.